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# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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-::: N&O #36 - April 2001 :::-

★ MORSE STATIONS ★

::: M18

I haven't heard M18 myself for quite a long time, but if you live in the (Far) East you might be able to catch it on 4073 kHz where it is active these days. Time transmitted is UTC+3.

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::: M40

Takashi reports that M40 is still quite active on a number of frequencies. He has logged the station this month on:

5533,5	5588,5	5590,0	5811,5	5840,0	6290,0
6628,5	10350,0	10621,0	12950,0	14600,0	kHz

Samples:

VVV CQ 113. 121  
VVV CQ 461  
VVV CQ 747.130  
VVV CQ 130  
VVV CQ 113.754  
VVV CQ 211 986  
VVV CQ 995.747  
VVV CQ 113. 121  
VVV CQ 299

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::: MX - U-marker

Remember the jammer related, former Soviet, U-channel marker? (see N&O #32). Rimantas found in his files 32 frequencies that were used by 'U' until spring 1990. Thanks Rimantas.

So, for the historians amongst us.....

3635.5	4447.5	4775.5	5376.0	5568.5	6245.5
6864.0	6985.5	7395.5	7423.0	7569.5	7677.5
8136.0	8669.5	8670.5	8918.0	9057.5	9313.5
10215.0	10285.0	11526.0	12184.5	12329.0	15655.0
15700.5	15705.0	18115.0	20428.5	24371.0	24409.5
24657.0	24982.0	kHz			

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::: Unid stations

Interfering with SAR activities, an unid morse station sent a lengthy message on 5680 kHz on 27 April at ca. 22.40 UTC, and ended at 23.30 UTC. The transmission consisted of 5FGs and ended with = = AR AR after the final 5-figure group. <source: Dave>

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Igor reported a possibly Russian station that he heard on 16 April at 0700 UTC on 13010 kHz. The station sends long zero's.

Sample:

792 792 792 000 000 (8 minutes)

The call sign was repeated several times, "000" was always sent twice.

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I copied an unid station on 6754 kHz on 28 April at 2115 UTC. The station transmitted this string for 3 minutes:

FRS6566 FRS6566 FRS6566. Ends with FRS6566+

Ideas anyone?

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::: DBLB

John writes to tell that ''The mysterious "DBLB" is still on 7583 at 1700 UTC daily with CW ops chat and a RTTY message. He never sends more than one message, which is always either 90 or 99 groups, so I guess this is just another training exercise - but what does he do for the remaining 23 hours and 50 minutes every day, I wonder?''

Don't know, John :-)) If anyone has info about this one, please yell!

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\* VOICE STATIONS \*

::: S10 a.k.a. BULGARIAN BETTY / S10E

"BULGARIAN BETTY". The nickname of this station, which only went on the air in December, 1990, was given to it by various American numbers station monitors. In fact, because of its all night broadcasting schedule, it became a regular logging for listeners in the United States. The language used was variously described as Russian, Polish, Bulgarian, Serbo-Croat and - on a Radio Netherlands report, even Macedonian. The interval signal used was a five note rising scale tune which was followed by the group headings. The messages were sent in the five figure format. It was a very monotonous and boring transmission, even as numbers stations go. At the end of its life it was using two frequencies: 4030 and 4882.5, not in parallel. However, these transmissions were sent at various times between 1600 and 0600. Other frequencies noted during Betty's career were 2805 (usually low), 3225, 4006, 5157, 5247, 5445, 5860 and 7740. Betty is gone now, but not forgotten. <from Simon Mason's book 'Secret Signals'>

Betty may be gone, but Betty's successors are alive and kicking. The station has used various formats over the years. ENIGMA coded them S10A-E.

S10A - 555 idler

S10B - 5-note tuning signal

S10C - 3-figure circuit number with idler

S10D - 3-figure circuit number

S10E - 3-figure circuit number, 5FG (3x) GC (3x) in call

example: 111 111 111 82526 82526 82526 17 17 17

Note: the 3-figure circuit number (111, 222, 333, 444, 555) did originally correspond with the frequency on which the repeat transmission was scheduled. 111 being the primary frequency, 222 the secondary, etc. I am not sure if this is still the case.

S10E is the only one that's being heard these days. It used to transmit from Thursday to Tuesday. The May schedule should have started on Thursday 3 May, but did not start until Monday the 7th. It looks like S10E and its morse counterpart M10E have changed their schedules to Monday to Friday now. S10E's schedule is at 1300 UTC on 10642 kHz. Iso reported another transmission on Friday 30/3 at 1000 UTC on 5107 kHz.

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Formats:

- Preamble:

111 111 111            - circuit number

70212 70212 70212 - key  
20 20 20 - group count

- Message:  
70212 70212 70212 - key  
98 98 - group coordinate index  
20 20 - group count

Pozor Pozor - attention  
followed by 5FGs. Groups are repeated:  
68114 68114 27826 27826 17391 17391 53652 53652 60334 60334  
message ends with "pozor pozor", GC index (2x) en GC (2x)

Note:  
Hothor = Ready  
Pozor = Attention  
Conet = End

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- Format S10A

Circuit number 555 was used as idler with "555 555 555 000" messages,  
repeated for 5 minutes. The transmissions ended with "Conet Conet".

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- Format S10B(Bulgarian Betty)

Preamble (5-tones, repeated 38x)  
333 333  
12022 12022 70 70  
67835 67835 16 16  
48200 48200 18 18  
30528 30528 26 26  
Hothor Hothor  
12022 12022 79 79 70 70  
67738 67738 48538 48538 25540 25540.... 79 79 70 70  
Conet Conet

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- Format S10E

111 111 111  
70212 70212 70212 20 20 20  
55529 55529 55529 16 16 16

70212 70212 70212 98 98 20 20  
 Pozor Pozor  
 68114 68114 27826 27826 17391 17391 53652 53652 60334 60334  
 83655 83655 93272 93272 12737 12737 53435 53435 04990 04990  
 51241 51241 21452 21452 15642 15642 21816 21816 88651 88651  
 81865 81865 82670 82670 19220 19220 77304 77304 13242 13242  
 Pozor Pozor  
 98 98 20 20

55529 55529 55529 62 62 16 16  
 Pozor Pozor  
 68177 68177 61283 61283 09367 09367 79983 79983 28844 28844  
 82765 82765 59148 59148 90320 90320 37228 37228 18240 18240  
 63143 63143 01625 01625 72552 72552 44893 44893 89323 89323  
 77339 77339  
 Pozor Pozor  
 62 62 16 16

000

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# \* RUSSIAN FREQUENCIES \*

Interesting info about Russian frequency usage was submitted by one of our correspondents.

He explains that the Russian military know four periods:

- Period 1: 1 March - 5 May
- Period 2: 6 May - 31 August
- Period 3: 1 September - 31 October
- Period 4: 1 November - 28 February

Each period has its own block of frequencies. Each block is assigned to a specific net. Usually these frequencies change when a new period begins. The blocks have both day and night frequencies. Each net has a number and -as a rule- the lower the number of the net, the higher it is hierarchically spoken. Here is a setup that was used a couple of years ago. The net numbers are fictitious.

	Period 1		Period 2		Period 3		Period 4		
	-----		-----		-----		-----		
Net	Day	Night	Day	Night	Day	Night	Day	Night	
1	5250	1880	6850	3260	4960	3820	7390	1540	kHz
2	4780	3380	5840	2560	4560	2270	6180	2330	kHz
3	4870	2470	5250	1880	6850	3260	4960	3820	kHz
4	4110	2320	4780	3380	5840	2560	4560	2270	kHz
5	7870	1610	4870	2470	5250	1880	6850	3260	kHz

6	7080	2800	4110	2320	4780	3380	5840	2560 kHz
7	7390	1540	7870	1610	4870	2470	5250	1880 kHz
8	6180	2330	7080	2800	4110	2320	4780	3380 kHz
9	4960	3820	7390	1540	7870	1610	4870	2470 kHz
10	4560	2270	6180	2330	7080	2800	4110	2320 kHz
11	6850	3260	4960	3820	7390	1540	7870	1610 kHz
12	5840	2560	4560	2270	6180	2330	7080	2800 kHz

So, now that you all know this, it's time to search for frequencies. It goes without saying that I am interested in your findings. I look forward to receiving your notes.

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#### \* GRU SATELLITES \*

A couple of weeks ago, I received a note that some -or maybe all- GONETS satellites are still transmitting. According to various sources, these satellites were test birds only and should be decommissioned in 1997.

GONETS are Russian LEO store-and-forward satellites, owned by the GRU. Store-and-forward systems are communications systems in which messages are received at intermediate routing points and recorded i.e., stored, and then transmitted, i.e., forwarded, to the next routing point or to the recipient.

The system should be composed of 36 satellites on 6 orbital planes. The project was launched in 1992 but not completed because there was no funding for an improved version. Yet, at least three of them are still alive and transmitting.

The original frequencies for the GONETS birds were in the 300-400 MHz range VHF/UHF band and the 1.5-1.6 GHz band. Uplinks were from 312-315 MHz and 1624.5-1643.4 MHz, and downlinks from 387-390 MHz and 1541.0-1541.9 MHz.

The satellites that have been logged during the past few weeks are:  
 GONETS D1-1, launched on 19 February 1996, frequency 264.750 MHz  
 GONETS D1-2, launched on 19 February 1996, frequency 264.900 MHz  
 GONETS D1-3, launched on 19 February 1996, frequency 264.600 MHz

GONETS-D1 was to be deployed in a constellation of 12 satellites (2 planes of 6) between 1996 and 1998. Each satellite had a single simultaneous earth-space and space-earth channel. On-board storage was 12 Mbits of data, with a transmission rate of 2.4 kbit/sec. You can hear short data bursts in Narrow-FM when the satellites pass.

For those of you who want to give it a shot..... here are the TLEs.

GONETS D1-1

1 23787U 96009A 01110.86276627 .00000011 00000-0 00000+0 0 6176  
2 23787 82.5751 61.4481 0010796 50.0994 310.1046 12.63909414238479

GONETS D1-2

1 23788U 96009B 01110.93374196 .00000012 00000-0 10000-4 0 6150  
2 23788 82.5678 62.3670 0006344 47.0213 313.1408 12.63011746238312

GONETS D1-3

1 23789U 96009C 01110.84805437 .00000011 00000-0 00000+0 0 6195  
2 23789 82.5756 65.0941 0004324 23.9247 336.2055 12.62440995238198

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\* LOGS SECTION \*

2743.0 E10 Mossad YL/EE: In progress @ 2139 USB 07-04-2001 Sat  
2130 (LAZ)  
3025.0 M08a ID 39031 89793 69662 CW 14-04-2001 Sat 1000 (MS)  
3195 MX Russian mil Izhevsk. Channelmarker R CW 01-04-2001 Sun  
1658 (CG)  
3195,0 MX SLHFM, R. Izhevsk, Russia CW 06-04-2001 Fri 1546 (TY)  
3244.0 M08a ID 31521 76451 24143 CW 14-04-2001 Sat 1000 (MS)  
3270.0 E10 KPA2 USB 24-04-2001 Tue 2215 (GG)  
3334,8 MX Russian navy St. Petersburg. Channelmarker L CW  
08-04-2001 Sun 2058 (DW)  
3334,9 MX Russian navy St.Petersburg. Channelmerker L CW  
24-04-2001 Tue 1943 (TJ)  
3360.0 E10 MIW2 USB 24-04-2001 Tue 2215 (GG)  
3415.0 E10 ART 45 HPGIW USB 06-04-2001 Fri 2230 (GG)  
3415.0 E10 in progress USB 14-04-2001 Sat 0134 (GG)  
3415.0 E10 ART 88 BXWNA USB 24-04-2001 Tue 2200 (GG)  
3417.0 E10 ART USB 09-04-2001 Mon 0030 (GG)  
3430 M21 Russian Air Defense. = 5356 u44 un CW 18-04-2001 Wed  
1327 (IB)  
3451.0 E10 Mossad YL/EE: ART2 USB 07-04-2001 Sat 2230 (LAZ)  
3594,0 MX SLHFM, F, Vladivostok, Russia CW 09-04-2001 Tue 1010  
3640.0 E10 VLB2 USB 13-04-2001 Fri 2345 (GG)  
3640.0 E10 VLB2 USB 14-04-2001 Sat 0045 (GG)  
3640.0 E10 VLB2 USB 14-04-2001 Sat 0145 (GG)  
3640.0 E10 VLB2 USB 14-04-2001 Sat 0245 (GG)  
3640.0 E10 VLB2 USB 18-04-2001 Wed 2245 (GG)  
3640.0 E10 VLB2 USB 19-04-2001 Thu 2145 (GG)  
3640.0 E10 VLB2 USB 24-04-2001 Tue 2145 (GG)  
3658 MX Russian navy Khiva. Channelmarker V CW 24-04-2001 Tue  
1955 (TJ)  
3658,0 MX SLHFM-V, Khiva, Uzbekistan CW 07-04-2001 Sat 2117 (TY)  
3756 S30 PiP CW 24-04-2001 Tue 1840 (TJ)

3757,0	S30	The PIP USB 15-04-2001 Sun 1844 (TY)
3840.0	E03	USB 13-04-2001 Fri 0021 (ANK)
3840.0	E10	YHF2 USB 20-04-2001 Fri 2100 (GG)
3840.0	E10	YHF USB 24-04-2001 Tue 2200 (GG)
3840.0	E10	YHF 37 RLNPM USB 26-04-2001 Thu 2200 (GG)
4015	M21	Russian Air Defense. =990306??0????? CW 07-04-2001 Sat 2306 (AB)
4015.0	E10	MIW2 USB 13-04-2001 Fri 2315 (GG)
4015.0	E10	MIW2 USB 14-04-2001 Sat 0015 (GG)
4016.5	M08a	DGWMA UITMA URWGD (38591 47091 46583) CW 21-04-2001 Sat 0300 (GH)
4027.0	M08a	ID 31521 76451 24143 (rpt of 1000z sked on 3244m) CW 14-04-2001 Sat 1100 (MS)
4028.0	V02a	AM 07-04-2001 Sat 0300 (RU)
4073,0	M18	M18, Russian pseudo-TS, Ust'Kamennogorsk, Kazakhstan. Sending app. Moscow time(UTC + 3hrs). CW 04-04-2001 Wed 1222 (TY)
4073,0	M18	M18, Russian pseudo-TS, Ust'Kamennogorsk, Kazakhstan. Sending app. Moscow time(UTC + 3hrs). CW 05-04-2001 Thu 1315 (TY)
4073,0	M18	M18, Russian pseudo-TS, Ust'Kamennogorsk, Kazakhstan. Sending app. Moscow time(UTC + 3hrs). CW 06-04-2001 Fri 1315 (TY)
4073,0	M18	M18, Russian pseudo-TS, Ust'Kamennogorsk, Kazakhstan. Sending app. Moscow time(UTC + 3hrs). CW 07-04-2001 Sat 2113 (TY)
4073,0	M18	M18, Russian pseudo-TS, Ust'Kamennogorsk, Kazakhstan. Sending app. Moscow time(UTC + 3hrs). CW 15-04-2001 Sun 1550 (TY)
4073,0	M18	M18, Russian pseudo-TS, Ust'Kamennogorsk, Kazakhstan. Sending app. Moscow time(UTC + 3hrs). CW 17-04-2001 Tue 2117 (TY)
4073,0	M18	M18, Russian pseudo-TS, Ust'Kamennogorsk, Kazakhstan. Sending app. Moscow time(UTC + 3hrs). CW 18-04-2001 Wed 1445 (TY)
4165.0	E10	KPA2 USB 24-04-2001 Tue 2215 (GG)
4233,0	XSL	The slot machine AM 09-04-2001 Tue 0958 (TY)
4269	E10	Israeli Intel. PCD AM 07-04-2001 Sat 2300 (AB)
4270.0	E10	PCD2 USB 10-04-2001 Tue 0000 (GG)
4270.0	E10	PCD too much QRN for a copy USB 10-04-2001 Tue 0030 (GG)
4270.0	E10	PCD too much QRN for a copy USB 10-04-2001 Tue 0230 (GG)
4270.0	E10	PCD USB 13-04-2001 Fri 2300 (GG)
4270.0	E10	PCD 65 ????? USB 20-04-2001 Fri 2100 (GG)
4270.0	E10	PCD2 USB 24-04-2001 Tue 2130 (GG)
4270.0	E10	PCD 34 RUHSC USB 24-04-2001 Tue 2200 (GG)
4292,0	XSL	The slot machine AM 09-04-2001 Tue 0958 (TY)



4325,8 MX Russian mil Izhevsk. Channelmarker R CW 24-04-2001 Tue  
 1833 (TJ)  
 4325.0 MX R CW 24-04-2001 Tue 2128 (GG)  
 4360.0 E10 VLB2 USB 13-04-2001 Fri 2245 (GG)  
 4360.0 E10 VLB2 USB 13-04-2001 Fri 2345 (GG)  
 4360.0 E10 VLB2 USB 14-04-2001 Sat 0045 (GG)  
 4360.0 E10 VLB2 USB 14-04-2001 Sat 0145 (GG)  
 4360.0 E10 VLB2 USB 14-04-2001 Sat 0245 (GG)  
 4360.0 E10 VLB2 USB 18-04-2001 Wed 2245 (GG)  
 4360.0 E10 VLB2 USB 19-04-2001 Thu 2145 (GG)  
 4360.0 E10 VLB2 USB 24-04-2001 Tue 2145 (GG)  
 4454,0 S21 //4854 AM 19-04-2001 Thu 1842 (HFD)  
 4461.0 E10 FTJ weak USB 01-04-2001 Sun 0100 (JM4)  
 4461.0 E10 FTJ 9 NDUCY USB 01-04-2001 Sun 0300 (GG)  
 4461.0 E10 FTJ USB 08-04-2001 Sun 0100 (GG)  
 4461.0 E10 FTJ USB 08-04-2001 Sun 0300 (GG)  
 4461.0 E10 in progress 145 TEOYG USB 11-04-2001 Wed 2038 (GG)  
 4461.0 E10 FTJ2 USB 13-04-2001 Fri 2300 (GG)  
 4461.0 E10 FTJ USB 13-04-2001 Fri 2330 (GG)  
 4461.0 E10 in progress USB 19-04-2001 Thu 2005 (GG)  
 4461.0 E10 FTJ USB 20-04-2001 Fri 2100 (GG)  
 4461.0 E10 FTJ 58 CQEU Y USB 24-04-2001 Tue 2200 (GG)  
 4478.0 M08a ID 39031 89793 69662 (rpt of 1000z sked on 3025m) CW  
 14-04-2001 Sat 1100 (MS)  
 4479.0 V02a AM 11-04-2001 Wed 0300 (WK)  
 4506.0 M08? in progress with V02 in bkg CW 15-04-2001 Sun 0319  
 4506.0 V02 in progress AM 15-04-2001 Sun 0319 (GG)  
 4558,0 MX SLHFMs, F and M, Vladivostok and poss Magadan CW  
 06-04-2001 Fri 1542 (TY)  
 4560.0 E10 YHF USB 01-04-2001 Sun 0230 (GG)  
 4560.0 E10 YHF USB 09-04-2001 Mon 0230 (GG)  
 4560.0 E10 YHF2 USB 18-04-2001 Wed 2300 (GG)  
 4560.0 E10 YHF2 USB 19-04-2001 Thu 2000 (GG)  
 4625 S28 Buzzer AM 24-04-2001 Tue 1822 (TJ)  
 4625,0 S28 The Buzzer, near Moscow, Russia AM 21-04-2001 Sat 0240  
 (TY)  
 4625.0 S28 The Buzzer USB 16-04-2001 Mon 0000 (JM4)  
 4625.0 S28 Buzzying AM 20-04-2001 Fri 2112 (GG)  
 4641,0 M50 831-190/50 CW 19-04-2001 Thu 1920 (HFD)  
 4780.0 E10 SYN2 USB 13-04-2001 Fri 1845 (GG)  
 4780.0 E10 //6912 SYN2 USB 16-04-2001 Mon 0145 (JM4)  
 4780.0 E10 SYN2 USB 18-04-2001 Wed 2245 (GG)  
 4780.0 E10 SYN2 USB 19-04-2001 Thu 2145 (GG)  
 4780.0 E10 SYN2 USB 20-04-2001 Fri 2045 (GG)  
 4780.0 E10 SYN2 USB 24-04-2001 Tue 2145 (GG)  
 4800.0 E10 Mossad YL/EE: ???2 (Caught the -very- tail end of null  
 message.) USB 07-04-2001 Sat 2230 (LAZ)  
 4854,0 S21 //4454 AM 19-04-2001 Thu 1842 (HFD)

4878,0	MX	SLHFM, V. Khiva, Uzbekistan CW 08-04-2001 Sun 2100
4880,0	E10	ULX, Israeli Mossad USB 15-04-2001 Sun 1830 (TY)
4880.0	E10	ULX 2 msgs 31 ?????/?? ????? USB 02-04-2001 Mon 2300 (GG)
4880.0	E10	ULX 63 BDCCV USB 03-04-2001 Tue 0030 (GG)
4880.0	E10	ULX 71 FLPV? USB 03-04-2001 Tue 0200 (GG)
4880.0	E10	ULX 73 OAFJQ USB 03-04-2001 Tue 0330 (GG)
4880.0	E10	i/p 2nd msg=13 BLNSV USB 04-04-2001 Wed 2317 (GG)
4880.0	E10	Mossad YL/EE: In progress @ 2142 USB 07-04-2001 Sat 2130 (LAZ)
4880.0	E10	ULX USB 13-04-2001 Fri 2300 (GG)
4880.0	E10	ULX USB 14-04-2001 Sat 0030 (GG)
4880.0	E10	ULX USB 14-04-2001 Sat 0330 (GG)
4880.0	E10	ULX 3 msgs: 84 NIQIQ/?? ?????/19 LOMZ? USB 20-04-2001 Fri 2030 (GG)
4880.0	E10	ULX2 USB 20-04-2001 Fri 2100 (GG)
4880.0	E10	ULX 39 JOROK USB 24-04-2001 Tue 2130 (GG)
4880.0	E10	ULX2 USB 26-04-2001 Thu 2200 (GG)
4881.0	E10	ULX USB 03-04-2001 Tue 0230 (GG)
5017,0	M01	463-399/34 CW 03-04-2001 Tue 2000 (HFD)
5019,0	M10E	111:31627-90/19=77413, 18949-48/17=68540, 76467-57/20=10710, 50697-56/18=50042, 000 CW 08-04-2001 Sun 0900 (HFD)
5091.0	E10	i/p JSR? USB 01-04-2001 Sun 0145 (JM4)
5091.0	E10	Mossad YL/EE: In progress @ 2143 USB 07-04-2001 Sat 2130 (LAZ)
5091.0	E10	Mossad YL/EE: in progress @ 2235 USB 07-04-2001 Sat 2230 (LAZ)
5091.0	E10	in progress USB 11-04-2001 Wed 2038 (GG)
5091.0	E10	in progress USB 13-04-2001 Fri 2233 (GG)
5091.0	E10	JSR 79 FUPKJ USB 20-04-2001 Fri 2030 (GG)
5091.0	E10	JSR fast delivery USB 20-04-2001 Fri 2100 (GG)
5091.0	E10	JSR 73 YPUQ USB 24-04-2001 Tue 2130 (GG)
5091.0	E10	JSR 21 UPYQR USB 24-04-2001 Tue 2200 (GG)
5107	S10E	Slovak Man. 111 111 111 82526 82526 82526 17 17 17 AM 30-03-2001 Fri 1000 (ISO)
5117.0	V02	in progress USB 11-04-2001 Wed 0305 (GG)
5117.0	V02a	AM 11-04-2001 Wed 0300 (WK)
5117.0	V02a	In progress. Buzzy signal. AM 24-04-2001 Tue 0530 (BM)
5117.0	V02a	in progress AM 25-04-2001 Wed 0300 (JM4)
5135.0	V02	in progress AM 14-04-2001 Sat 0209 (GG)
5135.0	V02a	USB 07-04-2001 Sat 0200 (RU)
5140.0	M23	532 R10 (stops) CW 08-04-2001 Sun 0500 (MS)
5153,8	MX	Russian navy Kaliningrad. Cluster beacon P CW 24-04-2001 Tue 1820 (TJ)
5153,9	MX	Russian navy Arkhangelsk. Cluster beacon S CW 24-04-2001 Tue 1806 (TJ)
5159	M22	4XZ. Israeli navy Haifa. VVV marker CW 08-04-2001 Sun

0106 (AB)

5170,0	E10	MIW2, Israeli Mossad USB 07-04-2001 Sat 2115 (TY)
5170.0	E10	MIW2 USB 11-04-2001 Wed 2045 (GG)
5170.0	E10	MIW2 USB 13-04-2001 Fri 1816 (GG)
5170.0	E10	MIW2 USB 20-04-2001 Fri 2115 (GG)
5170.0	E10	MIW2 USB 24-04-2001 Tue 2215 (GG)
5210,0	G04	55750 25712... (34gr) AM 01-04-2001 Sun 2005 (HFD)
5212.0	E05	AM 11-04-2001 Wed 0300 (WK)
5236.0	E05	AM 11-04-2001 Wed 0300 (WK)
5310,0	G04	55750 25712... (34gr) AM 01-04-2001 Sun 2035 (HFD)
5339.0	E10	VLB2 USB 13-04-2001 Fri 1845 (GG)
5339.0	E10	VLB2 USB 13-04-2001 Fri 2245 (GG)
5339.0	E10	VLB2 USB 13-04-2001 Fri 2345 (GG)
5339.0	E10	VLB2 USB 14-04-2001 Sat 0145 (GG)
5339.0	E10	VLB2 USB 14-04-2001 Sat 0245 (GG)
5339.0	E10	VLB2 USB 14-04-2001 Sat 0345 (GG)
5339.0	E10	VLB2 USB 16-04-2001 Mon 0045 (JM4)
5339.0	E10	VLB2 USB 16-04-2001 Mon 0145 (JM4)
5339.0	E10	VLB2 USB 18-04-2001 Wed 2245 (GG)
5339.0	E10	VLB2 USB 20-04-2001 Fri 2045 (GG)
5342	MX	Russian navy Khiva. Channelmarker V CW 08-04-2001 Sun 0104 (AB)
5417.0	V02a	rptg 80953 29191 83942 AM 07-04-2001 Sat 0300 (RU)
5417.0	V02a	In prog; A _____ 07291 56242 AM 28-04-2001 Sat 0312
5419.0	M08	in progress CW 14-04-2001 Sat 0224 (GG)
5422.0	E03	in progress USB 13-04-2001 Fri 1822 (GG)
5435.0	E10	in progress USB 04-04-2001 Wed 2317 (GG)
5435.0	E10	ART 45 HPGIW USB 06-04-2001 Fri 2230 (GG)
5435.0	E10	ART USB 13-04-2001 Fri 2300 (GG)
5435.0	E10	ART USB 13-04-2001 Fri 2330 (GG)
5435.0	E10	ART USB 14-04-2001 Sat 0130 (GG)
5435.0	E10	ART2 USB 20-04-2001 Fri 2030 (GG)
5435.0	E10	ART 31 HRCIDI USB 20-04-2001 Fri 2100 (GG)
5435.0	E10	ART 88 BXWNA USB 24-04-2001 Tue 2200 (GG)
5435.0	E10	ART2 USB 26-04-2001 Thu 2200 (GG)
5435.0	E20	ART2 USB 13-04-2001 Fri 2230 (GG)
5437.0	E10	ART 2 msgs : 50 RNAZC / USB 09-04-2001 Mon 0030 (GG)
5437.0	E10	in progress USB 13-04-2001 Fri 1841 (GG)
5437.0	E10	ART weak USB 16-04-2001 Mon 0030 (JM4)
5466,0	MX	SLHFM, R, Izhevsk, Russia CW 06-04-2001 Fri 1546 (TY)
5530	E15	in progress USB 14-04-2001 Sat 2025 (PILE)
5533,5	M40	In progress, VVVCQ299 CW 06-04-2001 Fri 1504 (TY)
5570,0	M29	79/32:15 2200=72150 CW 18-04-2001 Wed 2000 (HFD)
5588,5	M40	VVV CQ113. 121, North Korea ICW 06-04-2001 Fri 1400
5588,5	M40	VVV CQ113.754 Poss North Korean CW nbrs CW 09-04-2001 Tue 1400 (TY)
5590,0	M40	VVV CQ113.754 CW 11-04-2001 Wed 1400 (TY)
5620,0	M29	14/31:16 0700=34367 CW 16-04-2001 Mon 1200 (HFD)

5620,0 M29 46/37:30 0700=37313 CW 30-04-2001 Mon 0600 (HFD)  
5670,0 M29 79/32:15 2000=72150 CW 15-04-2001 Sun 2030 (HFD)  
5680 Unid morse station CW 27-04-2001 Fri 2245 (DP)  
5710,0 M29 17/35: 3 1900=05733 CW 20-04-2001 Fri 1900 (HFD)  
5720,0 M29 46/37:30 0700=37313 CW 30-04-2001 Mon 0630 (HFD)  
5746.0 E03 Very clear! USB 11-04-2001 Wed 0019 (ANK)  
5746.0 E03 USB 13-04-2001 Fri 0021 (ANK)  
5762.0 V02a AM 07-04-2001 Sat 0200 (RU)  
5811,5 M40 CQ461, North Korea CW 16-04-2001 Mon 1534 (TY)  
5812.0 E05 in progress USB 18-04-2001 Wed 0302 (GG)  
5820.0 E10 in progress USB 01-04-2001 Sun 0205 (GG)  
5820.0 E10 with havv BC QRN USB 14-04-2001 Sat 0130 (GG)  
5820.0 E10 YHF USB 14-04-2001 Sat 0231 (GG)  
5820.0 E10 YHF2 USB 19-04-2001 Thu 2000 (GG)  
5820.0 E10 YHF2 USB 24-04-2001 Tue 2130 (GG)  
5820.0 E10 YHF USB 24-04-2001 Tue 2200 (GG)  
5820.0 E10 YHF 37 RLNPM USB 26-04-2001 Thu 2200 (GG)  
5840,0 M40 VVV CQ211 986, North Korea CW 03-04-2001 Tue 1400 (TY)  
6270.0 E10 //7760 ULX weak AM 01-04-2001 Sun 0100 (JM4)  
6270.0 E10 i/p 2nd msg=13 BLNSV USB 04-04-2001 Wed 2317 (GG)  
6270.0 E10 ULX 2 msgs: 35 KHHQZ / ?? ????? USB 06-04-2001 Fri  
0100 (GG)  
6270.0 E10 ULX 64 VHEPU USB 06-04-2001 Fri 0400 (GG)  
6270.0 E10 ULX 2 msgs: 35 KHHQZ / ?? ????? USB 08-04-2001 Sun  
0100 (GG)  
6270.0 E10 ULX 64 VHEPU USB 08-04-2001 Sun 0400 (GG)  
6270.0 E10 ULX2 USB 08-04-2001 Sun 0430 (GG)  
6270.0 E10 ULX 2 msgs : 35 KHHQZ / 13 ENGKO USB 09-04-2001 Mon  
0100 (GG)  
6270.0 E10 ULX USB 13-04-2001 Fri 2300 (GG)  
6270.0 E10 ULX USB 14-04-2001 Sat 0400 (GG)  
6270.0 E10 //7760 ULX USB 16-04-2001 Mon 0100 (JM4)  
6270.0 E10 ULX 3 msgs: 84 NIQIQ/?? ?????/19 LOMZ? USB 20-04-2001  
Fri 2030 (GG)  
6270.0 E10 //7760 ULX (41) EIRL\_ AM 25-04-2001 Wed 0100 (JM4)  
6270.0 E10 //7760 ULX weak AM 26-04-2001 Thu 0100 (JM4)  
6270.0 E10 ULX2 USB 26-04-2001 Thu 2200 (GG)  
6290,0 M40 VVV CQ211 986, North Korea CW 03-04-2001 Tue 1430 (TY)  
6370,0 E10 KPA2, Israeli Mossad USB 07-04-2001 Sat 2115 (TY)  
6370.0 E10 KPA2 USB 13-04-2001 Fri 2315 (GG)  
6370.0 E10 KPA2 USB 14-04-2001 Sat 0015 (GG)  
6370.0 E10 KPA2 USB 14-04-2001 Sat 0217 (GG)  
6370.0 E10 KPA2 USB 14-04-2001 Sat 0317 (GG)  
6370.0 E10 KPA2 USB 16-04-2001 Mon 0115 (JM4)  
6370.0 E10 KPA2 USB 20-04-2001 Fri 2115 (GG)  
6370.0 E10 KPA2 USB 24-04-2001 Tue 2215 (GG)  
6370.0 E10 KPA2 AM 25-04-2001 Wed 0115 (JM4)  
6417.0 XSL Slot Machine USB 16-04-2001 Mon 1300 (JM4)

6418,0 XSL The slot machine AM 09-04-2001 Tue 0958 (TY)  
6445.0 XSL Slot Machine USB 16-04-2001 Mon 1300 (JM4)  
6445.0 XSL Slot Machine USB 28-04-2001 Sat 1400 (JM4)  
6446,0 XSL The slot machine AM 09-04-2001 Tue 0958 (TY)  
6485.0 E03 in progress USB 13-04-2001 Fri 1822 (GG)  
6498.0 E10 PCD2 USB 07-04-2001 Sat 0000 (GG)  
6498.0 E10 barely readable USB 07-04-2001 Sat 0030 (GG)  
6498.0 E10 PCD2 barely readable USB 07-04-2001 Sat 0330 (GG)  
6498.0 E10 PCD USB 10-04-2001 Tue 0030 (GG)  
6498.0 E10 unreadable USB 11-04-2001 Wed 0030 (GG)  
6498.0 E10 PCD2 USB 13-04-2001 Fri 2330 (GG)  
6498.0 E10 PCD2 USB 14-04-2001 Sat 0330 (GG)  
6498.0 E10 PCD weak USB 16-04-2001 Mon 0030 (JM4)  
6498.0 E10 PCD 34 RUHSC USB 24-04-2001 Tue 2200 (GG)  
6590,0 M29 17/35: 3 1900=05733 CW 03-04-2001 Tue 1700 (HFD)  
6628,5 M40 VVV CQ113. 121, North Korea ICW 06-04-2001 Fri 1430  
6767,0 M08a The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW  
08-04-2001 Sun 1205 (TY)  
6768.0 V02a rptg 94322 87713 46022 USB 07-04-2001 Sat 0100 (RU)  
6768.0 V02a A 40312 90691 21242; Repeat of 0300 6855kHz ? AM  
30-04-2001 Mon 0400 (BM)  
6796.0 M08a ID 31891 77993 20971 CW 14-04-2001 Sat 1200 (MS)  
6840.0 E10 EZI. 2 msgs: 89 WNGAV/18 ATZQD USB 06-04-2001 Fri 2230  
(GG)  
6840.0 E10 EZI USB 09-04-2001 Mon 0230 (GG)  
6840.0 E10 in progress USB 15-04-2001 Sun 2208 (GG)  
6840.0 E10 in progress USB 19-04-2001 Thu 2208 (GG)  
6840.0 E10 EZI in progress USB 20-04-2001 Fri 1900 (GG)  
6840.0 E10 in progress USB 20-04-2001 Fri 1903 (GG)  
6840.0 E10 in progress USB 20-04-2001 Fri 2203 (GG)  
6840.0 E10 in progress USB 21-04-2001 Sat 1803 (GG)  
6842.0 E10 //9130//11565 EZI USB 01-04-2001 Sun 0200 (JM4)  
6842.0 E10 //9130//11565 EZI AM 16-04-2001 Mon 0200 (JM4)  
6854,0 M08a The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW  
04-04-2001 Wed 1223 (TY)  
6855.0 V02a In prog, \_\_\_\_\_ 90691 \_\_\_\_\_ AM 29-04-2001 Sun 0314 (GH)  
6855.0 V02a A \_\_\_\_\_ 21242; In prog AM 30-04-2001 Mon 0316  
6866,0 M08a The Cuban Cut CW nbrs, DGI, in progress. CW 12-04-2001  
Fri 1205 (TY)  
6866.0 M08a ID .5022 49651 69042 (very weak) CW 14-04-2001 Sat  
1300 (MS)  
6912.0 E10 SYN2 USB 06-04-2001 Fri 2245 (GG)  
6912.0 E10 SYN2 USB 11-04-2001 Wed 2045 (GG)  
6912.0 E10 SYN2 USB 13-04-2001 Fri 1845 (GG)  
6912.0 E10 SYN2 USB 13-04-2001 Fri 2245 (GG)  
6912.0 E10 SYN2 USB 13-04-2001 Fri 2345 (GG)  
6912.0 E10 SYN2 USB 14-04-2001 Sat 0045 (GG)  
6912.0 E10 SYN2 USB 14-04-2001 Sat 0145 (GG)

6912.0 E10 SYN2 USB 14-04-2001 Sat 0345 (GG)  
6912.0 E10 SYN2 USB 16-04-2001 Mon 0045 (JM4)  
6912.0 E10 //4780 SYN2 USB 16-04-2001 Mon 0145 (JM4)  
6912.0 E10 SYN2 USB 18-04-2001 Wed 2245 (GG)  
6912.0 E10 SYN2 USB 19-04-2001 Thu 2145 (GG)  
6912.0 E10 SYN2 USB 20-04-2001 Fri 2045 (GG)  
6912.0 E10 SYN2 USB 24-04-2001 Tue 2145 (GG)  
6932.0 M08a ID 31891 77993 20971 (rpt of 1200z sked on 6796m) CW  
14-04-2001 Sat 1300 (MS)  
6959 E03 Lincolnshire Poacher in progress USB 08-04-2001 Sun  
2000 (AB)  
6959,0 E03 LP, British MI6, Cyprus USB 07-04-2001 Sat 2100 (TY)  
6959,0 E03 LP, British MI6, Cyprus USB 08-04-2001 Sun 2100 (TY)  
6959,0 E03 LP, British MI6 and SIS, Cyprus USB 15-04-2001 Sun  
1900 (TY)  
6959.0 E03 44121 USB 03-04-2001 Tue 2200 (GG)  
6959.0 E03 54723 USB 04-04-2001 Wed 2000 (GG)  
6959.0 E03 73307 USB 06-04-2001 Fri 2200 (GG)  
6959.0 E03 faint //9251.0 USB 06-04-2001 Fri 2200 (RU)  
6959.0 E03 Lincolnshire Poacher: Heard call-up music USB  
07-04-2001 Sat 2130 (LAZ)  
6959.0 E03 Lincolnshire Poacher YL/EE: in progress @ 2228  
//9251//11545 USB 07-04-2001 Sat 2200 (LAZ)  
6959.0 E03 weak USB 12-04-2001 Thu 0020 (ANK)  
6959.0 E03 USB 13-04-2001 Fri 0021 (ANK)  
6959.0 E03 96504 USB 14-04-2001 Sat 2100 (GG)  
6959.0 E03 10971 USB 20-04-2001 Fri 2100 (GG)  
6959.0 E03 LP tune playing USB 21-04-2001 Sat 2103 (GG)  
6959.0 E03 10934 USB 24-04-2001 Tue 2200 (GG)  
6960.0 E05 Call 911 Count 82 479/88 ... USB 04-04-2001 Wed 2200  
6960.0 E05 Call 474 USB 16-04-2001 Mon 2200 (GG)  
6986.0 E10 in progress USB 04-04-2001 Wed 2317 (GG)  
6986.0 E10 ART USB 06-04-2001 Fri 0400 (GG)  
6986.0 E10 ART2 USB 09-04-2001 Mon 0500 (GG)  
6986.0 E10 ART USB 13-04-2001 Fri 2300 (GG)  
6986.0 E10 in progress USB 14-04-2001 Sat 0404 (GG)  
6986.0 E10 ART 31 HRCDI USB 20-04-2001 Fri 2100 (GG)  
7019,0 The Russian Man numbers, without ENIGMA code. Ended  
with "000". This station is heard regularly at 1104Z  
every Thursday. AM 05-04-2001 Thu 1104 (TY)  
7019,0 The Russian Man numbers, without ENIGMA code AM  
12-04-2001 Thu 1104 (TY)  
7038,9 MX Russian navy Arkhangelsk. Cluster beacon S CW  
24-04-2001 Tue 1806 (TJ)  
7039,0 MX SLHFMs, F and M, Vladivostok and poss Magadan CW  
06-04-2001 Fri 1542 (TY)  
7039,0 MX SLHFM, F and M, Vladivostok and Magadan, Russian Navy  
AM 19-04-2001 Thu 0945 (TY)

7322.0 E10 in progress 145 TE0YG USB 11-04-2001 Wed 2038 (GG)  
7337.0 E03 The Lincolnshire Poacher nbrs, British MI6 and SIS, Cyprus USB 17-04-2001 Tue 2100 (TY)  
7337.0 E03 26054 USB 03-04-2001 Tue 2100 (GG)  
7337.0 E03 26054 USB 10-04-2001 Tue 2100 (GG)  
7337.0 E03 51808 USB 11-04-2001 Wed 2100 (GG)  
7337.0 E03 in progress USB 19-04-2001 Thu 2208 (GG)  
7337.0 E03 20176 USB 24-04-2001 Tue 2100 (GG)  
7337.0 E03 33271 USB 26-04-2001 Thu 2200 (GG)  
7350.0 E10 FTJ, Israeli Mossad USB 21-04-2001 Sat 1700 (TY)  
7358.0 E10 FTJ USB 20-04-2001 Fri 2100 (GG)  
7373 M21 Russian Air Defense CW (TY)  
7430.0 E05 Call 584 USB 16-04-2001 Mon 2000 (GG)  
7430.0 E05 Call 584 Count 200 921/45 ... USB 19-04-2001 Thu 2000  
7430.0 E10 39639 73939 69996 99992 98934 6698 33999 33092 98388 AM 05-04-2001 Thu 0020 (ANK)  
7445.0 E10 CI02 USB 13-04-2001 Fri 2246 (GG)  
7445.0 E10 MIW2 USB 20-04-2001 Fri 2115 (GG)  
7519.5 M08a ----- NWWMD (----- 25593) CW 30-04-2001 Mon 2213 (GH)  
7540.0 E10 JSR, Israeli Mossad USB 21-04-2001 Sat 1700 (TY)  
7540.0 E10 in progress USB 11-04-2001 Wed 2038 (GG)  
7540.0 E10 JSR 79 FUPKJ USB 20-04-2001 Fri 2030 (GG)  
7584.0 V02a? Presumed scrambled nbrs. With poss 5FG's. V02a? ? 09-04-2001 Mon 1020 (TY)  
7605.0 E10 //9270 CI02 USB 01-04-2001 Sun 0145 (JM4)  
7605.0 E10 CI02 USB 06-04-2001 Fri 2245 (GG)  
7605.0 E10 CI02 USB 13-04-2001 Fri 2246 (GG)  
7605.0 E10 CI02 USB 13-04-2001 Fri 2345 (GG)  
7605.0 E10 CI02 USB 14-04-2001 Sat 0045 (GG)  
7605.0 E10 CI02 USB 14-04-2001 Sat 0145 (GG)  
7605.0 E10 CI02 USB 14-04-2001 Sat 0217 (GG)  
7605.0 E10 CI02 USB 14-04-2001 Sat 0245 (GG)  
7605.0 E10 CI02 USB 14-04-2001 Sat 0317 (GG)  
7605.0 E10 CI02 USB 16-04-2001 Mon 0045 (JM4)  
7605.0 E10 //9270//12747 CI02 AM 16-04-2001 Mon 0145 (JM4)  
7605.0 E10 CI02 USB 18-04-2001 Wed 2245 (GG)  
7620.0 E05 Call 816 USB 14-04-2001 Sat 0303 (GG)  
7633 M21 Russian Air Defense. =99?2250?9????? CW 21-04-2001 Sat 1850 (PP)  
7667 M16 8BY. DGSE. VVV 8BY 308/391/124/28/164 CW 14-04-2001 Sat 2000 (BW)  
7760.0 E10 //6270 weak AM 01-04-2001 Sun 0100 (JM4)  
7760.0 E10 ULX 2 msgs: 35 KHHQZ / ?? ?????? USB 08-04-2001 Sun 0100 (GG)  
7760.0 E10 //6270 ULX USB 16-04-2001 Mon 0100 (JM4)  
7760.0 E10 //6270 ULX (41) EIRL\_ AM 25-04-2001 Wed 0100 (JM4)  
7760.0 E10 //6270 ULX weak AM 26-04-2001 Thu 0100 (JM4)

7811.0	E10	VLB2, Israeli Mossad USB 21-04-2001 Sat 1745 (TY)
7863.0	M08a	ID ----- 06021 70301 (new freq-rpt of 0700z sked on 9112m) CW 10-04-2001 Tue 0800 (MS)
7863.5	M08a	In progress CW 01-05-2001 Tue 0805 (GH)
7887.0	V02a	A 26802 05111 84153 AM 01-04-2001 Sun 0200 (JM4)
7918.0	E10	YHF 38 DPR?? USB 01-04-2001 Sun 0130 (GG)
7918.0	E10	YHF USB 01-04-2001 Sun 0200 (JM4)
7918.0	E10	YHF USB 01-04-2001 Sun 0230 (GG)
7918.0	E10	in progress (shorter preamble ?) USB 04-04-2001 Wed 0232 (GG)
7918.0	E10	YHF USB 09-04-2001 Mon 0230 (GG)
7918.0	E10	YHF USB 14-04-2001 Sat 0130 (GG)
7918.0	E10	YHF USB 14-04-2001 Sat 0231 (GG)
7918.0	E10	YHF (22) NKGRQ AM 16-04-2001 Mon 0130 (JM4)
7918.0	E10	YHF USB 16-04-2001 Mon 0200 (JM4)
7918.0	E10	YHF 60 FEFMX USB 20-04-2001 Fri 0230 (GG)
8009.5	M08a	DUGMN UMWAA NWWMD (34892 49511 25593) CW 30-04-2001 Mon 2300 (GH)
8010.0	M08a	ID ----- (in progress) CW 13-04-2001 Fri
8085.0	E05	in progress USB 19-04-2001 Thu 1705 (GG)
8095	V02	Spanish numbers AM 26-04-2001 Thu 0620 (D11)
8097.0	V02	in progress AM 14-04-2001 Sat 0608 (GG)
8097.0	V02	(in progress) YL/SS (no ID - not sure if a V2 or V2a) AM 19-04-2001 Thu 0700 (MS)
8135.0	M08a	99811 20662 41272 CW 06-04-2001 Fri 2300 (MS)
8136.0	M08a	ID 26593 57481 64502 CW 14-04-2001 Sat 1100 (MS)
8153	S06	Russian Man AM 25-04-2001 Wed 1907 (PILE)
8187.0	M03	624/00 CW 21-04-2001 Sat 0800 (HFD)
8190.0	S17C	94036 AM 07-04-2001 Sat 1250 (HFD)
8190.0	S17C	92037 AM 13-04-2001 Fri 1250 (HFD)
8190.0	S17C	99038 AM 15-04-2001 Sun 1250 (HFD)
8190.0	S17C	72034 AM 17-04-2001 Tue 1250 (HFD)
8190.0	S17C	92034 AM 29-04-2001 Sun 1250 (HFD)
8300.0	V13	The New Star Radio, Taiwan AM 06-04-2001 Fri 1100 (TY)
8300.0	V13	YL/CC 4FGx2 in progress AM 16-04-2001 Mon 1300 (JM4)
8300.0	V13	YL/CC 4FGx2 AM 26-04-2001 Thu 1200 (JM4)
8300.0	V13	YL/CC 4FGx2 AM 26-04-2001 Thu 1300 (JM4)
8375.0	V22	Chinese female numbers Beijing, China. Female operator only repeating "All stations, this is Beijing speaking" in Chinese for app. 6 min. AM 12-04-2001 Thu
8494.8	MX	Russian navy Kaliningrad. Cluster beacon P CW 24-04-2001 Tue 1845 (TJ)
8495.0	MX	SLHFMs, F and M, Vladivostok and poss Magadan CW 06-04-2001 Fri 1542 (TY)
8495.0	MX	SLHFM, F and M, Vladivostok and Magadan, Russian Navy AM 19-04-2001 Thu 0945 (TY)
8588.0	XSL	Slot Machine USB 16-04-2001 Mon 1300 (JM4)
8588.0	XSL	Slot Machine USB 26-04-2001 Thu 1415 (JM4)



8588.0 XSL Slot Machine USB 27-04-2001 Fri 1450 (JM4)  
8588.0 XSL Slot Machine USB 28-04-2001 Sat 1400 (JM4)  
8589,0 XSL The slot machine AM 09-04-2001 Tue 0948 (TY)  
8703.5 XSL Slot Machine USB 16-04-2001 Mon 1300 (JM4)  
8703.5 XSL Slot Machine USB 26-04-2001 Thu 1415 (JM4)  
8703.5 XSL Slot Machine USB 27-04-2001 Fri 1450 (JM4)  
8703.5 XSL Slot Machine USB 28-04-2001 Sat 1400 (JM4)  
8704,5 XSL The slot machine AM 09-04-2001 Tue 0958 (TY)  
8870,0 Chinese female numbers, Chinese Intelligence AM  
09-04-2001 Mon 1330 (TY)  
8884.5 M42? 5F tfc, then into CW for Msg servicing. 50/850 RTTY  
08-04-2001 Sun 0352 (PM)  
8951.0 V02 523/07 07/57 - poor audio AM 26-04-2001 Thu 0400 (BM)  
9063.0 V02a ID ----- 51902 YL/SS AM 13-04-2001 Fri 0700 (MS)  
9063.0 V02a ID ----- (in progress) YL/SS AM 18-04-2001  
Wed 0700 (MS)  
9063.0 V02a ID 32422 21373 78723 - YL/SS AM 20-04-2001 Fri 0700  
9063.0 V02a ID 15232 23781 62301 - YL/SS AM 27-04-2001 Fri 0700  
9070,0 E05 TCS, CIA USB 21-04-2001 Sat 1800 (TY)  
9070,0 E05 TCS, CIA USB 21-04-2001 Sat 1800 (TY)  
9070.0 E05 Call 310 Count 176 278/31 ... USB 16-04-2001 Mon 1800  
9070.0 E05 Call 31? USB 21-04-2001 Sat 1800 (GG)  
9090,0 E05 TCS, Cynthia, E05 AM 08-04-2001 Mon 2200 (TY)  
9090.0 E05 rptg 911 Count? weak AM 04-04-2001 Wed 2200 (JM4)  
9090.0 E05 weak AM 09-04-2001 Mon 2200 (JM4)  
9090.0 E05 Call 474 USB 16-04-2001 Mon 2200 (GG)  
9090.0 E05 In progress, weak AM 30-04-2001 Mon 2213 (GH)  
9112.0 M08a ID ----- 06021 70301 (new freq) CW 10-04-2001 Tue 0700  
(MS)  
9112.5 M08a IMIDA UMUIA TTTTA (79731 49471 00001) CW 01-05-2001  
Tue 0700 (GH)  
9113.0 M08a ID ----- 25082 ----- (in progress) CW 19-04-2001 Thu  
0700 (MS)  
9130.0 E10 EZI 54 UFFCA USB 01-04-2001 Sun 0100 (GG)  
9130.0 E10 //11565 EZI weak AM 01-04-2001 Sun 0100 (JM4)  
9130.0 E10 //6842//11565 EZI USB 01-04-2001 Sun 0200 (JM4)  
9130.0 E10 Hard to hear. Had to use SSB. AM 04-04-2001 Wed 0019  
(ANK)  
9130.0 E10 //11565 EZI AM 04-04-2001 Wed 0100 (JM4)  
9130.0 E10 EZI 54 UFFTA USB 05-04-2001 Thu 0100 (GG)  
9130.0 E10 EZI 69 BLVSJ USB 05-04-2001 Thu 0200 (GG)  
9130.0 E10 EZI 64 ??LUM USB 05-04-2001 Thu 0300 (GG)  
9130.0 E10 EZI USB 09-04-2001 Mon 0230 (GG)  
9130.0 E10 in progress 89 WRAXD USB 11-04-2001 Wed 2038 (GG)  
9130.0 E10 in progress USB 13-04-2001 Fri 1841 (GG)  
9130.0 E10 //11565 EZI (41) DTRCD AM 16-04-2001 Mon 0100 (JM4)  
9130.0 E10 //6842//11565 EZI AM 16-04-2001 Mon 0200 (JM4)  
9130.0 E10 EZI 73 PNME0 USB 20-04-2001 Fri 2030 (GG)

9130.0 E10 EZI 38 DL??0 USB 24-04-2001 Tue 2130 (GG)  
 9130.0 E10 EZI ?9 L?NIY USB 24-04-2001 Tue 2200 (GG)  
 9130.0 E10 //11565 EZI2 AM 25-04-2001 Wed 0100 (JM4)  
 9130.0 E10 //11565 EZI2 AM 26-04-2001 Thu 0100 (JM4)  
 9152.0 M08a ID 76593 57481 24502 CW 14-04-2001 Sat 1200 (MS)  
 9153,0 M08a The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW  
 09-04-2001 Mon 1012 (TY)  
 9153,0 M08a The Cuabn Cut CW nbrs, Cuban Intelligence, DGI CW  
 11-04-2001 Tue 1004 (TY)  
 9153,0 M08a The Cuban Cut CW nbrs, in progress. CW 12-04-2001 Fri  
 1005 (TY)  
 9153,0 M08a The Cuban Cut CW nbrs in progress, Cuban Intelligence,  
 DGI, in progress. CW 16-04-2001 Mon 1015 (TY)  
 9164 M21 Russian Air Defense. =99?2027?9????? CW 07-04-2001 Sat  
 1627 (AB)  
 9164 M21 Russian Air Defense. =99?2255?9????? CW 07-04-2001 Sat  
 1855 (AB)  
 9202.0 E10 YHF USB 06-04-2001 Fri 0430 (GG)  
 9202.0 E10 YHF 5 GZICU USB 09-04-2001 Mon 0430 (GG)  
 9202.0 E10 in progress USB 13-04-2001 Fri 1841 (GG)  
 9205.0 E05 Call 816 COUNT 92 strong signal USB 07-04-2001 Sat  
 0300 (RU)  
 9205.0 E05 Call 816 USB 10-04-2001 Tue 0300 (GG)  
 9205.0 E05 Call 816 USB 14-04-2001 Sat 0303 (GG)  
 9219.0 E05 Call 409 USB 06-04-2001 Fri 2200 (GG)  
 9219.0 E05 heavy RTTY QRM USB 06-04-2001 Fri 2200 (RU)  
 9219.0 E05 in progress USB 16-04-2001 Mon 2011 (GG)  
 9219.0 E05 Call 802 USB 16-04-2001 Mon 2200 (GG)  
 9219.0 E05 Call 465 USB 19-04-2001 Thu 1705 (GG)  
 9219.0 E05 Call 584 Count 200 921/45 ... USB 19-04-2001 Thu 2000  
 9219.0 E05 rptg 474 Count 108 weak AM 20-04-2001 Fri 2200 (JM4)  
 9219.0 E05 Call 474 USB 21-04-2001 Sat 2200 (GG)  
 9219.0 E05 Call 474 Count 108 504/64 ... USB 27-04-2001 Fri 2200  
 9230,0 V02a The Cuban "atencion" nbrs, Cuban Intelligence, DGI AM  
 09-04-2001 Mon 1014 (TY)  
 9237,0 S06 Russian Man numbers, Russian Intelligence, S06. In  
 progress. Ended with "00000". Haven't heard this one  
 for a long time. AM 06-04-2001 Fri 1417 (TY)  
 9238,0 M08a The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW  
 09-04-2001 Mon 0906 (TY)  
 9238,0 M08a The Cuban CUT CW nbrs, in progress. CW 16-04-2001 Mon  
 0925 (TY)  
 9238.0 M08a (in progress) ----- 65323 26273 CW 02-04-2001 Mon 0700  
 (MS)  
 9239.0 M08a ID ----- (in progress) CW 20-04-2001 Fri  
 9239.0 M08a ID 25883 78221 45491 CW 27-04-2001 Fri 0700 (MS)  
 9251,0 E03 LP, British MI6, Cyprus USB 08-04-2001 Sun 2100 (TY)  
 9251,0 E03 LP, British MI6 and SIS, Cyprus USB 15-04-2001 Sun

1900 (TY)

9251,0 E03 The Lincolnshire Poacher nbrs, British MI6 and SIS, Cyprus USB 17-04-2001 Tue 2100 (TY)

9251.0 E03 26054 USB 01-04-2001 Sun 2100 (GG)

9251.0 E03 26054 USB 03-04-2001 Tue 2100 (GG)

9251.0 E03 51808 USB 04-04-2001 Wed 2100 (GG)

9251.0 E03 //12603 rptg 26054 USB 04-04-2001 Wed 2200 (JM4)

9251.0 E03 73307 USB 06-04-2001 Fri 2200 (GG)

9251.0 E03 //6959.0 USB 06-04-2001 Fri 2200 (RU)

9251.0 E03 Lincolnshire Poacher YL/EE: in progress @ 2228

//6959//11545 USB 07-04-2001 Sat 2200 (LAZ)

9251.0 E03 51808 USB 11-04-2001 Wed 2100 (GG)

9251.0 E03 USB 13-04-2001 Fri 0021 (ANK)

9251.0 E03 96504 USB 14-04-2001 Sat 2100 (GG)

9251.0 E03 //12603 rptg 33271 USB 19-04-2001 Thu 2200 (JM4)

9251.0 E03 10971 USB 20-04-2001 Fri 2100 (GG)

9251.0 E03 rptg 46540 USB 20-04-2001 Fri 2200 (JM4)

9251.0 E03 20176 USB 24-04-2001 Tue 2100 (GG)

9251.0 E03 10934 USB 24-04-2001 Tue 2200 (GG)

9251.0 E03 //12603 weak USB 25-04-2001 Wed 2100 (JM4)

9251.0 E03 33271 USB 25-04-2001 Wed 2100 (GG)

9251.0 E03 33271 USB 26-04-2001 Thu 2200 (GG)

9251.0 E03 repeating 20876 USB 29-04-2001 Sun 0020 (GNF)

9260.0 V02 Atencion 613/05 05/[missed] on rpt AM 01-05-2001 Tue 0810 (GH)

9270,0 E10 CI02, Israeli Mossad, USB 07-04-2001 Sat 2145 (TY)

9270,0 E10 CI02, Israeli Mossad USB 21-04-2001 Sat 1745 (TY)

9270.0 E10 //7605 CI02 USB 01-04-2001 Sun 0145 (JM4)

9270.0 E10 CI02 USB 06-04-2001 Fri 2245 (GG)

9270.0 E10 CI02 USB 13-04-2001 Fri 1845 (GG)

9270.0 E10 CI02 USB 13-04-2001 Fri 2246 (GG)

9270.0 E10 CI02 USB 13-04-2001 Fri 2345 (GG)

9270.0 E10 CI02 USB 14-04-2001 Sat 0045 (GG)

9270.0 E10 CI02 USB 14-04-2001 Sat 0145 (GG)

9270.0 E10 CI02 USB 14-04-2001 Sat 0218 (GG)

9270.0 E10 CI02 USB 14-04-2001 Sat 0345 (GG)

9270.0 E10 //7605//12747 CI02 AM 16-04-2001 Mon 0145 (JM4)

9270.0 E10 CI02 USB 18-04-2001 Wed 2245 (GG)

9270.0 E10 CI02 USB 19-04-2001 Thu 2145 (GG)

9270.0 E10 CI02 USB 20-04-2001 Fri 2045 (GG)

9270.0 E10 CI02 USB 24-04-2001 Tue 2145 (GG)

9319,0 E05 TCS, CIA USB 11-04-2001 Thu 1400 (TY)

9323,0 M08a The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW 01-04-2001 Sun 0905 (TY)

9323,0 M08a The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW 09-04-2001 Tue 1006 (TY)

9323,0 M08a The Cuban Cut CW nbrs, Cuban Intelligence, DGI, in progress. CW 12-04-2001 Thu 1005 (TY)

9331,0	M08a	The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW 04-04-2001 Wed 1223 (TY)
9331,0	M08a	The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW 11-04-2001 Tue 1205 (TY)
9332,0	M08a	The Cuabn Cut CW nbrs, Cuban Intelligence, DGI CW 11-04-2001 Tue 1004 (TY)
9418.0	M24	528 00000 R4 CW 10-04-2001 Tue 0800 (MS)
9418.0	M24	528 00000 R4 (null sked-rpt of Tuesday 4/10/01 sked) CW 11-04-2001 Wed 0800 (MS)
9418.0	M24	528x3 00000 R4 (null sked) CW 24-04-2001 Tue 0800 (MS)
9725,0	V13	The New Star Radio, Taiwan AM 06-04-2001 Fri 1100 (TY)
9725.0	V13	YL/CC 4FGx2 AM 26-04-2001 Thu 1300 (JM4)
9962.0	V02	Atencion 978/08 08/95 on rpt AM 01-05-2001 Tue 0411
10125.0	M08a	ID 40312 83533 12433 (rpt of 0800z sked on 11432m) CW 07-04-2001 Sat 0900 (MS)
10126,0	M08a	The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW 05-04-2001 Thu 0902 (TY)
10126,0	M08a	The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW 06-04-2001 Fri 1105 (TY)
10126,0	M08a	The Cuban Cut CW nbrs, Cuban Intelligence, DGI, in progress. CW 12-04-2001 Thu 0905 (TY)
10126.0	M08a	ID ----- (in progress) CW 21-04-2001 Sat
10235,0	M08a	The Cuban CUT CW nbrs, DGI, in progress AM 15-04-2001 Sun 0809 (TY)
10235.0	M08	in progress CW 15-04-2001 Sun 0419 (GG)
10235.5	M08a	----- MGRRD (----- 98663) CW 01-05-2001 Tue 0421 (GH)
10248	M16	8BY. DGSE. 221/218/697/023/353/775 RPT OTA 1900 CW 24-02-2001 Tue 1857 (OC)
10250	M16	8BY. DGSE. VVV 8BY 629/445/762/663/099/505 CW 06-04-2001 Fri 0401 (AL)
10250.0	M03	503/00 CW 01-05-2001 Tue 0745 (GH)
10346,0	M08a	The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW 05-04-2001 Thu 1005 (TY)
10350,0	M40	VVV CQ995.747, North Korea CW 04-04-2001 Wed 1600 (TY)
10426.0	E03	//11545 rptg 51565 USB 09-04-2001 Mon 2200 (JM4)
10426.0	E03	//12603//14487 rptg 50917 USB 30-04-2001 Mon 1400
10426.0	E03	LP in progress under data //11545 USB 30-04-2001 Mon 2213 (GH)
10446,0	M08a	The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW 05-04-2001 Thu 1005 (TY)
10446.0	M08a	ID 35932 92473 65313 CW 13-04-2001 Fri 0800 (MS)
10446.0	V02a	in progress AM 25-04-2001 Wed 0300 (JM4)
10527.0	E05	Call 409 USB 06-04-2001 Fri 2200 (GG)
10527.0	E05	Call 802 USB 16-04-2001 Mon 2200 (GG)
10527.0	E05	Call 474 USB 21-04-2001 Sat 2200 (GG)
10527.0	E05	Call 474 Count 108 504/64 ... USB 27-04-2001 Fri 2200
10566.0	M08a	ID ----- 69381 846(stops and resumes 10 minutes later

at end of 3rd msg-new freq CW 08-04-2001 Sun 1300 (MS)  
 10566.0 M08a ID 01962 ----- (in progress) CW 22-04-2001 Sun 1300 (MS)  
 10583.0 E05 in progress USB 21-04-2001 Sat 2100 (GG)  
 10583.0 E05 //11580 rptg 034 Count 75 825/70 AM 21-04-2001 Sat 2100 (JM4)  
 10621.0 M40 VVV CQ747.130, North Korea, ended with ARAR VAVA. CW 11-04-2001 Thu 1000 (TY)  
 10642 S10E Slovak Man 999 999 999 28 20 20 20 etc AM 08-04-2001 Sun 1300 (AB)  
 10642.0 S10E 111:26474-88/21=82477, 36572-48/16=68634, 46418-84/23=48175, 74141-17/14=85024, 000 AM 07-04-2001 Sat 1300 (HFD)  
 10642.0 S10 weak USB 05-04-2001 Thu 1300 (GG)  
 10642.0 S10 with fading USB 08-04-2001 Sun 1300 (GG)  
 10643.0 E05 in progress USB 16-04-2001 Mon 1910 (GG)  
 10643.0 E05 in progress USB 19-04-2001 Thu 1908 (GG)  
 10648.0 E10 YHF group 13 AKBO(B?) USB 01-05-2001 Tue 0430 (GH)  
 10698 E17 5FGs Off with 102 102 102 00000 AM 18-04-2001 Wed 0324 (JH)  
 10698.0 E17 Rptg 876 876 876 00000 AM 05-04-2001 Thu 0300 (GH)  
 10767 M42 FAPSI. Msgs on link 70004 RTTY 10-04-2001 Tue 1535  
 10858.0 M08a The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW 05-04-2001 Thu 1205 (TY)  
 10858.0 M08a The Cuban Cut CW nbrs in progress, Cuban Intelligence, DGI CW 11-04-2001 Thu 1205 (TY)  
 10858.0 M08a ID ----- 19991 ----- (in progress) CW 14-04-2001 Sat  
 10861.0 XM The Backward Music Station AM 07-04-2001 Sat 2215 (TY)  
 10871.8 MX Russian navy Kaliningrad. Cluster beacon P CW 24-04-2001 Tue 1849 (TJ)  
 10871.9 MX Russian navy Arkhangelsk. Cluster beacon S CW 24-04-2001 Tue 1849 (TJ)  
 10872.0 MX SLHFMs, C and M, Moscow and poss Magadan CW 06-04-2001 Fri 1542 (TY)  
 10872.0 MX SLHFM "S" CW 22-04-2001 Sun 1707 (JM4)  
 10872.0 MX SLHFM "S" CW 29-04-2001 Sun 1500 (JM4)  
 10893 XPH Schedule 808 AM 03-04-2001 Tue 0600 (ISO)  
 10893.0 XPH msg AM 13-04-2001 Fri 0600 (HFD)  
 11072 M42 FAPSI. in progress RTTY 10-04-2001 Tue 1646 (RH2)  
 11072.0 E05 TCS, CIA USB 15-04-2001 Sun 1800 (TY)  
 11072.0 E05 in progress USB 15-04-2001 Sun 1825 (GG)  
 11072.0 E05 in progress USB 19-04-2001 Thu 1808 (GG)  
 11072.0 E05 Rptg 189 count 191 9\_6/32 //13465 AM 22-04-2001 Sun 1800 (GH)  
 11106.0 E17 ID 397 AM 22-04-2001 Sun 0400 (RU)  
 11155.0 XPH msg AM 13-04-2001 Fri 2040 (HFD)  
 11157.0 XPH High-Pitch Polytone w/message AM 13-04-2001 Fri 2040  
 11430.0 V13 The New Star Radio, Taiwan AM 06-04-2001 Fri 1100 (TY)

11430.0 V13 YL/CC 4FGx2 in progress AM 16-04-2001 Mon 1300 (JM4)  
11431.5 M08a WGGTN ARMDA MGRRD (58802 16931 98663) CW 01-05-2001  
Tue 0500 (GH)  
11432.0 M08a ID 40312 83533 12433 CW 07-04-2001 Sat 0800 (MS)  
11432.0 M08a ID 52082 09193 26073 CW 10-04-2001 Tue 0800 (MS)  
11432.0 M08a ID ----- (in progress) CW 21-04-2001 Sat  
11432.5 M08a In progress CW 03-04-2001 Tue 0812 (GH)  
11439.0 m24 839 R4 567x2 241x2 BTx2 CW 06-04-2001 Fri 0800 (MS)  
11439.0 M24 839 00000 R4 (null sked) CW 13-04-2001 Fri 0800 (MS)  
11545.0 E03 LP, British MI6 and SIS, Cyprus USB 15-04-2001 Sun  
1900 (TY)  
11545.0 E03 LP in progress, v. clear despite multitone QRM //10426  
USB 01-04-2001 Sun 2213 (GH)  
11545.0 E03 very clear signal USB 02-04-2001 Mon 2238 (GNF)  
11545.0 E03 35958 USB 05-04-2001 Thu 2000 (GG)  
11545.0 E03 Lincolnshire Poacher YL/EE: in progress @ 2228  
//6959//9251 USB 07-04-2001 Sat 2200 (LAZ)  
11545.0 E03 //10426 rptg 51565 USB 09-04-2001 Mon 2200 (JM4)  
11545.0 E03 //13375//15682 in progress USB 13-04-2001 Fri 1900  
11545.0 E03 weak USB 13-04-2001 Fri 2000 (JM4)  
11545.0 E03 96504 USB 14-04-2001 Sat 2100 (GG)  
11545.0 E03 //13375//16084 rptg 53364 USB 20-04-2001 Fri 1900  
11545.0 E03 10971 USB 20-04-2001 Fri 2100 (GG)  
11545.0 E03 rptg 10937 USB 21-04-2001 Sat 2100 (JM4)  
11545.0 E03 rptg 10971 USB 21-04-2001 Sat 2200 (JM4)  
11545.0 E03 //12603//13375 rptg 33271 USB 22-04-2001 Sun 1700  
11545.0 E03 LP tune barely audible USB 22-04-2001 Sun 2000 (GH)  
11545.0 E03 //13375 rptg 53364 USB 23-04-2001 Mon 1500 (JM4)  
11545.0 E03 //13375 rptg 53364 USB 23-04-2001 Mon 1500 (JM4)  
11545.0 E03 10934 USB 24-04-2001 Tue 2200 (GG)  
11545.0 E03 //14487 rptg 46540 USB 28-04-2001 Sat 1400 (JM4)  
11545.0 E03 //12603//13375 rptg 10971 USB 29-04-2001 Sun 1500  
11545.0 E03 73307 USB 30-04-2001 Mon 1600 (GG)  
11565.0 E10 //9130 EZI weak AM 01-04-2001 Sun 0100 (JM4)  
11565.0 E10 //6842//9130 EZI USB 01-04-2001 Sun 0200 (JM4)  
11565.0 E10 //9130 EZI AM 04-04-2001 Wed 0100 (JM4)  
11565.0 E10 EZI group 54 UFFCA USB 05-04-2001 Thu 0100 (GH)  
11565.0 E10 Mossad YL/EE: EZI2 USB 07-04-2001 Sat 0500 (LAZ)  
11565.0 E10 in progress USB 15-04-2001 Sun 2005 (GG)  
11565.0 E10 //9130 EZI (41) DTRCD AM 16-04-2001 Mon 0100 (JM4)  
11565.0 E10 //6842//9130 EZI AM 16-04-2001 Mon 0200 (JM4)  
11565.0 E10 USB 19-04-2001 Thu 0313 (WK)  
11565.0 E10 EZI 73 PNME0 USB 20-04-2001 Fri 2030 (GG)  
11565.0 E10 EZI USB 20-04-2001 Fri 2100 (GG)  
11565.0 E10 EZI 38 DL??0 with GG BC in bkg USB 24-04-2001 Tue 2130  
(GG)  
11565.0 E10 EZI ?9 L?NIY USB 24-04-2001 Tue 2200 (GG)  
11565.0 E10 //9130 EZI2 AM 25-04-2001 Wed 0100 (JM4)

11565.0 E10 5LG in prog, @:45 rpt group 104 UBJG\_; truncated  
 //13533 USB 01-05-2001 Tue 0441 (GH)  
 11580.0 E05 //10583 rptg 034 Count 75 825/70 AM 21-04-2001 Sat  
 2100 (JM4)  
 12093.0 XPH msg AM 13-04-2001 Fri 0620 (HFD)  
 12093.0 M08a ID 39733 19991 19491 (rpt of 1200z sked on 10858m) CW  
 14-04-2001 Sat 1300 (MS)  
 12165.0 V02 AM 13813 51393 13513 USB 16-04-2001 Mon 0200 (GG)  
 12165.0 V02a A 13813 51293 03363 AM 16-04-2001 Mon 0200 (JM4)  
 12180.0 V02a There were two stations operation on this freq, one  
 ended @0231 AM 11-04-2001 Wed 0233 (WK)  
 12207.0 XPH msg AM 13-04-2001 Fri 2020 (HFD)  
 12209.0 XPH High-Pitch Polytone w/message AM 13-04-2001 Fri 2020  
 12239 M42 FAPSI. Msgs on link 70004 RTTY 10-04-2001 Tue 1641  
 12603.0 E03 The Lincolnshire Poacher nbrs, British MI6 and SIS,  
 Cyprus USB 17-04-2001 Tue 2100 (TY)  
 12603.0 E03 LP, British MI6 and SIS, Cyprus USB 21-04-2001 Sat  
 1700 (TY)  
 12603.0 E03 26054 USB 03-04-2001 Tue 2100 (GG)  
 12603.0 E03 51808 USB 05-04-2001 Thu 2200 (JM4)  
 12603.0 E03 //9251 rptg 33271 USB 19-04-2001 Thu 2200 (JM4)  
 12603.0 E03 //11545//13375 rptg 33271 USB 22-04-2001 Sun 1700  
 12603.0 E03 20176 USB 24-04-2001 Tue 2100 (GG)  
 12603.0 E03 //9251 weak USB 25-04-2001 Wed 2100 (JM4)  
 12603.0 E03 //13375 rptg 20176 USB 27-04-2001 Fri 1500 (JM4)  
 12603.0 E03 //11545//13375 rptg 10971 USB 29-04-2001 Sun 1500  
 12603.0 E03 //10426//14487 rptg 50917 USB 30-04-2001 Mon 1400  
 12603.0 E04 //9251 rptg 26054 USB 04-04-2001 Wed 2200 (JM4)  
 12603.0 E04 Cherry Ripe; in progress. USB 29-04-2001 Sun 1807 (BM)  
 12747.0 E10 CI02, Israeli Mossad, USB 06-04-2001 Fri 1445 (TY)  
 12747.0 E10 CI02, Israeli Mossad, USB 07-04-2001 Sat 2115 (TY)  
 12747.0 E10 CI02, Israeli Mossad USB 21-04-2001 Sat 1715 (TY)  
 12747.0 E10a CI02 marathon, callup only, Israeli Mossad, for over  
 30mins. AM 01-04-2001 Sun 2145 (TY)  
 12747.0 E10 CI02 USB 14-04-2001 Sat 0145 (GG)  
 12747.0 E10 //7605//9270 CI02 AM 16-04-2001 Mon 0145 (JM4)  
 12747.0 E10 CI02 USB 19-04-2001 Thu 2145 (GG)  
 12747.0 E10 CI02 USB 20-04-2001 Fri 2045 (GG)  
 12747.0 E10 CI02 USB 24-04-2001 Tue 2145 (GG)  
 12903.0 M08a The Cuban Cut CW nbrs, Cuban Intelligence, DGI CW  
 05-04-2001 Thu 1304 (TY)  
 12950.0 M40 VVV CQ130 Hr Hr16 16, poss North Korea, ended with AR  
 AR VA VA CW 11-04-2001 Thu 1037 (TY)  
 13374.0 V02a The Cuban "atencion" nbrs, Cuban Intelligence, DGI AM  
 01-04-2001 Sun 0705 (TY)  
 13374.0 V02a The Cuban "atencion" nbrs, Cuban Intelligence, DGI.  
 Transmission was suddenly off at 1614 JST. Pretty good  
 signal but low modulation. AM 08-04-2001 Sun 0700

13374,0 V02a The Cuban "atencion" nbrs, Cuban Intelligence, DGI AM  
 22-04-2001 Sun 0700 (TY)  
 13375,0 E03 LP, British MI6 and SIS, Cyprus USB 21-04-2001 Sat  
 1700 (TY)  
 13375,0 XPH msg AM 13-04-2001 Fri 2000 (HFD)  
 13375.0 E03 weak USB 09-04-2001 Mon 1500 (JM4)  
 13375.0 E03 weak USB 09-04-2001 Mon 1600 (JM4)  
 13375.0 E03 weak USB 10-04-2001 Tue 1600 (JM4)  
 13375.0 E03 //11545//15682 in progress USB 13-04-2001 Fri 1900  
 13375.0 E03 //16084 rptg 82391 USB 20-04-2001 Fri 1700 (JM4)  
 13375.0 E03 //11545//16084 rptg 53364 USB 20-04-2001 Fri 1900  
 13375.0 E03 10971 USB 22-04-2001 Sun 1500 (GG)  
 13375.0 E03 //11545//12603 rptg 33271 USB 22-04-2001 Sun 1700  
 13375.0 E03 //11545 rptg 53364 USB 23-04-2001 Mon 1500 (JM4)  
 13375.0 E03 //11545 rptg 53364 USB 23-04-2001 Mon 1500 (JM4)  
 13375.0 E03 //12603 rptg 20176 USB 27-04-2001 Fri 1500 (JM4)  
 13375.0 E03 weak USB 27-04-2001 Fri 1600 (JM4)  
 13375.0 E03 //11545//12603 rptg 10971 USB 29-04-2001 Sun 1500  
 13375.0 E03 //15682 weak USB 30-04-2001 Mon 1500 (JM4)  
 13375.0 E03 weak USB 30-04-2001 Mon 1600 (JM4)  
 13378 XPH Schedule 321 AM 03-04-2001 Tue 2000 (ISO)  
 13378.0 XPH High-Pitch Polytone w/message AM 13-04-2001 Fri 2000  
 13444.0 E05 Call 310 Count 176 278/31 ... USB 16-04-2001 Mon 1800  
 13444.0 E05 In progress, weak/noisy AM 21-04-2001 Sat 1826 (GH)  
 13465,0 E05 TCS, CIA USB 15-04-2001 Sun 1800 (TY)  
 13465.0 E05 Rptg 189 count 191 9\_6/32 //11072 AM 22-04-2001 Sun  
 1800 (GH)  
 13527,8 MX Russian navy Kaliningrad. Cluster beacon P CW  
 24-04-2001 Tue 1852 (TJ)  
 13527,9 MX Russian navy Arkhangelsk. Cluster beacon S CW  
 24-04-2001 Tue 1852 (TJ)  
 13528,0 MX SLHFMs, F and M, Vladivostok and poss Magadan CW  
 06-04-2001 Fri 1542 (TY)  
 13528,0 MX SLHFMs, F and K, Vladivostok and Petropavrosvk Kam. K  
 station with a distincive hum. CW 16-04-2001 Mon 1940  
 13528,2 MX Russian navy Vladivostok. Cluster beacon F CW  
 24-04-2001 Tue 1906 (TJ)  
 13528.0 MX SLHFM "S" CW 21-04-2001 Sat 2110 (JM4)  
 13528.0 MX SLHFM "S" CW 29-04-2001 Sun 1500 (JM4)  
 13532.0 E17 Down w/276 276 90 90 00000 AM 21-04-2001 Sat 0305 (GH)  
 13533.0 E10 EZI barely readable USB 09-04-2001 Mon 0530 (GG)  
 13533.0 E10 in progress USB 13-04-2001 Fri 1841 (GG)  
 13533.0 E10 EZI USB 20-04-2001 Fri 2100 (GG)  
 13533.0 E10 5LG in prog, @:45 rpt group 104 UBJG\_; truncated  
 //11565 USB 01-05-2001 Tue 0441 (GH)  
 13750,0 V13 The New Star Radio, Taiwan AM 06-04-2001 Fri 1100 (TY)  
 13750.0 V13 YL/CC 4FGx2 in progress AM 16-04-2001 Mon 1300 (JM4)  
 13750.0 V13 YL/CC 4FGx2 in progress AM 25-04-2001 Wed 1600 (JM4)



13750.0 V13 YL/CC 4FGx2 AM 26-04-2001 Thu 1300 (JM4)  
13893,0 XPH msg AM 13-04-2001 Fri 0640 (HFD)  
13906,0 E05 TCS, CIA AM 22-04-2001 Sun 1200 (TY)  
14000,0 E15 Nancy Adam Susan nbrs, Alexandria, Egypt USB  
21-04-2001 Sat 1700 (TY)  
14487.0 E03 in progress USB 08-04-2001 Sun 1412 (GG)  
14487.0 E03 //15682//16084 in progress USB 16-04-2001 Mon 1200  
14487.0 E03 //15682//16084 rptg 10937 USB 16-04-2001 Mon 1300  
14487.0 E03 50917 USB 16-04-2001 Mon 1407 (GG)  
14487.0 E03 //16475 rptg 53364 USB 25-04-2001 Wed 1700 (JM4)  
14487.0 E03 //15682//16084 in progress USB 26-04-2001 Thu 1200  
14487.0 E03 //15682//16084 rptg 73901 USB 26-04-2001 Thu 1300  
14487.0 E03 //15682//16084 rptg 20176 USB 26-04-2001 Thu 1400  
14487.0 E03 //11545 rptg 46540 USB 28-04-2001 Sat 1400 (JM4)  
14487.0 E03 //10426//12603 rptg 50917 USB 30-04-2001 Mon 1400  
14536 M42 FAPSI. Mazielka calls + ops chat CROWD36 19-04-2001  
Thu 1715 (RH2)  
14600,0 M40 VVV CQ995.747, North Korea CW 04-04-2001 Wed 1630 (TY)  
14739 E04 Cherry Ripe USB 24-04-2001 Tue 1533 (OC)  
14739.0 E05 weak USB 17-04-2001 Tue 1511 (GG)  
14750,0 E10 CI02, Israeli Mossad, USB 07-04-2001 Sat 2145 (TY)  
14750,0 E10 CI02, Israeli Mossad USB 21-04-2001 Sat 1745 (TY)  
14750,0 E10a CI02 marathon, callup only, Israeli Mossad, for over  
30mins. AM 01-04-2001 Sun 2145 (TY)  
14750.0 E10 //18178 CI02 AM 26-04-2001 Thu 1245 (JM4)  
14910.0 M24 342 rptg 805r2 137r2 BTr2 Missed ending as faded CW  
05-04-2001 Thu 0001 (JS)  
14931,0 M16 8BY ,French Intelligence, Saint Assise, near Paris,  
France. VVV 8BY,this was followed by 3FG's separated  
by a slant bar. Barely Audible. CW 08-04-2001 Sun 0740  
15388,0 V13 The New Star Radio, Taiwan AM 06-04-2001 Fri 1100 (TY)  
15388.0 V13 YL/CC 4FGx2 AM 26-04-2001 Thu 1200 (JM4)  
15658.0 M14 in progress - down w/00000 T=0 CW 04-04-2001 Wed 0000  
(JM4)  
15682,0 E05 TCS, Cynthia, E05 AM 01-04-1931 Sat 1600 (TY)  
15682.0 E03 in progress USB 08-04-2001 Sun 1412 (GG)  
15682.0 E03 //11545//13375 in progress USB 13-04-2001 Fri 1900  
15682.0 E03 //14487//16084 in progress USB 16-04-2001 Mon 1200  
15682.0 E03 //14487//16084 rptg 10937 USB 16-04-2001 Mon 1300  
15682.0 E03 //14487//16084 in progress USB 26-04-2001 Thu 1200  
15682.0 E03 //14487//16084 rptg 73901 USB 26-04-2001 Thu 1300  
15682.0 E03 //14487//16084 rptg 20176 USB 26-04-2001 Thu 1400  
15682.0 E03 //13375 weak USB 30-04-2001 Mon 1500 (JM4)  
15754,0 Chinese female numbers, Chinese Intelligence AM  
05-04-2001 Thu 1300 (TY)  
15822 M42 FAPSI. Mazielka calls AM 05-04-2001 Thu 1750 (RH2)  
15833,0 E05 TCS, CIA AM 22-04-2001 Sun 1200 (TY)  
16084 E03 Lincolnshire Poacher. In progress USB 21-04-2001 Sat

1824 (PP)

16084.0	E03	//14487//15682 in progress USB 16-04-2001 Mon 1200
16084.0	E03	//14487//15682 rptg 10937 USB 16-04-2001 Mon 1300
16084.0	E03	//13375 rptg 82391 USB 20-04-2001 Fri 1700 (JM4)
16084.0	E03	//11545//13375 rptg 53364 USB 20-04-2001 Fri 1900
16084.0	E03	LP in progress USB 21-04-2001 Sat 1826 (GH)
16084.0	E03	//14487//15682 in progress USB 26-04-2001 Thu 1200
16084.0	E03	//14487//15682 rptg 73901 USB 26-04-2001 Thu 1300
16084.0	E03	//14487//15682 rptg 20176 USB 26-04-2001 Thu 1400
16198.0	E05	TCS, Cynthia, E05 AM 01-04-1931 Sat 1600 (TY)
16198.0	E05	in progress, at 16:27 "REPEAT, COUNT 176" at 16:43
		"END", format XXX/XX AM 07-04-2001 Sat 1619 (MW)
16198.0	E05	Rptg 896 count 1_0 464/12 (?), weak AM 21-04-2001 Sat
		1602 (GH)
16198.0	E05	rptg 896 Count 190 464/12 AM 25-04-2001 Wed 1600 (JM4)
16218.0	M24	Missed Callup. At msg end BTr2 205r2 167r2 closing 0 0
		0 0 0 CW 01-04-2001 Sun 2201 (JS)
16332.0	MX	SLHFMs, C, P and S, Moscow, Kalinigrade and
		Arkhangelsk, Russia CW 06-04-2001 Fri 1542 (TY)
16475.0	E03	//14487 rptg 53364 USB 25-04-2001 Wed 1700 (JM4)
18176.0	E10	CI02 AM 27-04-2001 Fri 1545 (JM4)
18178	E10	Israeli Intel. CI02 AM 23-04-2001 Mon 1147 (MM4)
18178.0	E10	CI02, Israeli Mossad, USB 06-04-2001 Fri 1445 (TY)
18178.0	E10	//14750 CI02 AM 26-04-2001 Thu 1245 (JM4)
18415.0	M16	8BY, French Intelligence, Saint Assise, near Paris,
		France. VVV 8BY, this was followed by 3FG's separated
		by a slant bar in faint CW. CW 08-04-2001 Sun 0740
18562.0	M24	469 00000 R4 CW 08-04-2001 Sun 2110 (MS)
18562.0	M24	469 R4 753x2 109x2 BTx2 CW 14-04-2001 Sat 2110 (MS)
18562.0	M24	469 x3 00000 CW 21-04-2001 Sat 2110 (GH)
18562.0	M24	469x3 00000 R4 (null sked) CW 22-04-2001 Sun 2110 (MS)
18562.0	M24	469 x3 00000 CW 22-04-2001 Sun 2110 (GH)
18562.0	M24	469 R4 380x2 129x2 BTx2 CW 28-04-2001 Sat 2110 (MS)
18562.0	M24	469 R4 380x2 129x2 BTx2 (repeat of Saturday sked) CW
		29-04-2001 Sun 2110 (MS)
18864.0	E03a	CR lady, Guam USB 04-04-2001 Wed 1100 (TY)
18864.0	E03a	CR, British MI6, Guam USB 11-04-2001 Tue 1200 (TY)
18864.0	E03a	CR, Guam USB 11-04-2001 Thu 1300 (TY)
18864.0	E04	//24644 rptg 70670 USB 04-04-2001 Wed 2200 (JM4)
18864.0	E04	weak USB 04-04-2001 Wed 2300 (JM4)
18864.0	E04	//24644 weak USB 05-04-2001 Thu 2200 (JM4)
18864.0	E04	//24644 weak USB 09-04-2001 Mon 2200 (JM4)
18864.0	E04	in progress USB 16-04-2001 Mon 1200 (JM4)
18864.0	E04	//21866 rptg 62760 USB 16-04-2001 Mon 1200 (JM4)
18864.0	E04	//24644 weak USB 19-04-2001 Thu 2200 (JM4)
18864.0	E04	//21866 in progress USB 26-04-2001 Thu 1300 (JM4)
19715.0	E10	EZI with jet QRM USB 09-04-2001 Mon 1130 (GG)
19715.0	E10	EZI (38) JJBRP AM 30-04-2001 Mon 1400 (JM4)

19884.0 E04 //21866 weak USB 16-04-2001 Mon 0100 (JM4)  
 19884.0 E04 weak USB 26-04-2001 Thu 0100 (JM4)  
 20048,0 MX SLHFMs, F, P and S, Vladivostok, Kaliningrad and  
 Arkhangelsk CW 07-04-2001 Sat 1026 (TY)  
 20474,0 E03a CR lady, Guam USB 05-04-2001 Thu 1000 (TY)  
 20946,0 M16 8BY, French Intelligence, Saint Assise, near Paris,  
 France. VVV 8BY, followed by 3FG's separated by a  
 slant bar in CW. CW 09-04-2001 Mon 0842 (TY)  
 21866,0 E03a CR, Guam USB 11-04-2001 Thu 1300 (TY)  
 21866.0 E04 //19884 weak USB 16-04-2001 Mon 0100 (JM4)  
 21866.0 E04 //18864 rptg 62760 USB 16-04-2001 Mon 1200 (JM4)  
 21866.0 E04 weak USB 19-04-2001 Thu 2300 (JM4)  
 21866.0 E04 //18864 in progress USB 26-04-2001 Thu 1300 (JM4)  
 23461,0 E03a CR lady, Guam USB 04-04-2001 Wed 1100 (TY)  
 23461,0 E03a CR lady, Guam USB 05-04-2001 Thu 1000 (TY)  
 23461,0 E03a CR, British MI6, Guam USB 11-04-2001 Tue 1200 (TY)  
 23740,0 E10 EZI, Israeli Mossad USB 06-04-2001 Fri 1130 (TY)  
 23740,0 E10 EZI, Israeli Mossad AM 08-04-2001 Sun 1200 (TY)  
 23740,0 E10 EZI, Israeli Mossad USB 09-04-2001 Tue 1400 (TY)  
 23740,0 E10 EZI, Israeli Mossad USB 11-04-2001 Tue 1030 (TY)  
 24644.0 E04 //18864 rptg 70670 USB 04-04-2001 Wed 2200 (JM4)  
 24644.0 E04 //18864 weak USB 05-04-2001 Thu 2200 (JM4)  
 24644.0 E04 //18864 weak USB 09-04-2001 Mon 2200 (JM4)  
 24644.0 E04 //18864 weak USB 19-04-2001 Thu 2200 (JM4)  
 24644.0 E04 CR in progress USB 30-04-2001 Mon 2213 (GH)

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 CG Costas, Greece  
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 DP2 David Pickard, UK  
 DW Day Watson, UK  
 GG Gallus Galus, W.Europe  
 GH Greg Hajek, ILL, USA  
 GNF Greg, New Foundland, Canada  
 HFD Hans-Friedrich Dumrese, Germany  
 IB Igor Buhtiyarov, Russia  
 ISO Iso, Central Europe  
 JH Jef Haverlah, USA  
 JM4 John Maky, Arkansas, USA  
 JS Jess Sumguy, OH, USA  
 LAZ Lazarus, CA, USA  
 MM4 Maciej Muszalski, Poland

MS Mark Slaten, MI, USA  
MW Matt W., CA, USA  
OC Old Crow, UK  
PILE Pile, Finland  
PM Patrick Mower, CA, USA  
PP Peter Poelstra, Netherlands  
RH2 Robert Hall, S.Africa  
RU Roy Unger, VA, USA  
TJ Trond Jacobsen, Norway  
TY Takashi Yamaguchi, japan  
WK William Kibler, KS, USA

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